

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**Division of Air Quality
AIR QUALITY ADVISORY
Southcentral Alaska #2019-F12
Friday, June 28, 2019**

LOCATION(S) IMPACTED: Southcentral Alaska is experiencing degraded air quality due to wildfire smoke from the Swan Lake fire located on the Kenai Peninsula.

VALID TIME: Friday June 28, 2019 4:00 PM to Monday July 1, 2019 4:00 PM, advisory will be issued until end of the event.

TIME/DATE OF THE NEXT REPORT: Monday July 1, 2019 4:00 PM

ADVISORY: Smoke from the Swan Lake fire on the Kenai Peninsula is impacting the air quality for Matanuska-Susitna Valley, Anchorage, and most of the communities on the Kenai Peninsula. Light and variable winds from the high pressure is dominating the region, but Sunday the high pressure migrates to the east allowing moisture to creep into the Alaska Range and sets up a southwesterly wind flow over the Kenai. The Kenai Mountains may see some precipitation, briefly cleaning out the mountain valleys of smoke, but smoke from the fire will be transported back into the Anchorage bowl and Matanuska-Susitna Valley. The air quality will vary between **GOOD** and **VERY UNHEALTHY** depending on wind flow and proximity to the fires. **See the table below for more guidance on the Air Quality Categories and Cautionary Statements.**

Be aware that areas immediately downwind of any fire will experience **HAZARDOUS** levels of smoke. Generally, worse conditions occur overnight and during the early morning hours, as the atmosphere cools and brings smoke to the surface. During the day, surface heating will mix smoke and carry it upwards, temporarily improving air quality.

SMOKE AND PUBLIC IMPACT: This is an area forecast, and as such is a general forecast for portions of Southwestern Interior Alaska. Smoke intensity will vary depending on precise location and local wind flow patterns. Smoke concentrations will be such that they could impact public health at times. It is advised that travelers check local weather as smoke conditions may vary considerably from one locality to the next. The most recent weather observations may be found on National Weather Service's homepage at <https://www.wrh.noaa.gov/map/>. UAFSMOKE, Wildfire Smoke Prediction for Alaska can be accessed at <http://smoke.alaska.edu/PM25.html>

In smoke impacted areas, DEC advises people with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion.

The following table contains the cautionary statements for the Air Quality for Particle Pollution.

Air Quality Category	Cautionary Statements
Good	None
Moderate	Unusually sensitive people should consider reducing prolonged or heavy exertion.
Unhealthy for Sensitive Groups	People with heart or lung disease, the elderly and children should reduce prolonged or heavy exertion.
Unhealthy	People with respiratory or heart disease, the elderly and children should avoid prolonged exertion; everyone else should limit prolonged exertion
Very Unhealthy	People with respiratory or heart disease, the elderly and children should avoid any outdoor activity; everyone else should avoid prolonged exertion
Hazardous	Everyone should avoid any outdoor exertion; people with respiratory or heart disease, the elderly and children should remain indoors

When air quality data is unavailable, the following **Air Quality Smoke Reference Guide** may be used to estimate air quality levels and potential health impacts:

Visibility	Air Quality
10+ miles	Good
6 - 9 miles	Moderate
3 - 5 miles	Unhealthy for sensitive groups
1.5 - 2.5 miles	Unhealthy
0.9 - 1.4 miles	Very Unhealthy
0.8 miles or less	Hazardous

FOR MORE INFORMATION: For information on this advisory, contact Mark Smith with the Division of Air Quality at 907-269-7676.